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ERRATUM: "EXCITATION MECHANISMS FOR HCN (1-0) AND HCO^+ (1-0) IN GALAXIES FROM THE GREAT OBSERVATORIES ALL-SKY LIRG SURVEY" (2015, ApJ, 814, 39)

G. C. Privon[1,2,3,14], R. Herrero-Illana[4,15], A. S. Evans[1,5], K. Iwasawa[6], M. A. Perez-Torres[4], L. Armus[7], T. Díaz-Santos[7,8], E. J. Murphy[9,5], S. Stierwalt[1,5], S. Aalto[10], J. M. Mazzarella[9], L. Barcos-Muñoz[1,16], H. J. Borish[1], H. Inami[12], D.-C. Kim[5], E. Treister[2,14], J. A. Surace[7], S. Lord[13], J. Conway[10], D. T. Frayer[11], and A. Alberdi[4]

[1] Department of Astronomy, University of Virginia, Charlottesville, VA 22903, USA; gprivon@astro.puc.cl
[2] Departamento de Astronomía, Universidad de Concepción, Concepción, Chile
[3] Visiting Graduate Student Research Fellow (2013), NASA Infrared Processing and Analysis Center, California Institute of Technology, Pasadena, CA 91125, USA
[4] Instituto de Astrofísica de Andalucíaa-CSIC, Glorieta de la Astronomía s/n, 18008, Granada, Spain
[5] National Radio Astronomy Observatory, Charlottesville, VA 22903, USA
[6] ICREA and Institut de Ciències del Cosmos (ICC), Universitat de Barcelona (IEEC-UB), Martí i Franquès 1, 08028, Barcelona, Spain
[7] Spitzer Science Center, California Institute of Technology, Pasadena, CA 91106, USA
[8] Núcleo de Astronomía de la Facultad de Ingeniería, Universidad Diego Portales, Av. Ejército Libertador 441, Santiago, Chile
[9] Infrared Processing and Analysis Center, California Institute of Technology, Pasadena, CA 91125, USA
[10] Chalmers University of Technology, Department of Earth and Space Sciences, Onsala Space Observatory, 43992 Onsala, Sweden
[11] National Radio Astronomy Observatory, Green Bank, WV 24944, USA
[12] National Optical Astronomy Observatory, 950 North Cherry Avenue, Tucson, AZ 85719, USA
[13] The SETI Institute, 189 Bernardo Avenue, Suite 100, Mountain View, CA 94043, USA
[14] Instituto de Astrofśica, Facultad de Física, Pontificia Universidad Católica de Chile, Casilla 306, Santiago 22, Chile
[15] ESO, Alonso de Cordova 3107, Vitacura, Santiago de Chile, Chile
[16] Joint ALMA Observatory, Alonso de Córdova 3107, Vitacura, Santiago, Chile
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An error in the coordinate transformation after fitting the L_{IR}-$L'_{HCN(1-0)}$ and L_{IR}-$L'_{HCO^+(1-0)}$ relations resulted in an incorrect presentation of the best-fit parameters. The slopes, m, were calculated and presented correctly. However the offsets, b, were incorrectly calculated as $b = b_\perp \tan\theta$ instead of $b = b_\perp \cos\theta$ (where $\theta = \arctan m$, see Hogg et al. 2010, Section 7). The correct relations are, for L_{IR}-$L'_{HCN(1-0)}$, including all data:

$$\log_{10}(L_{IR}/L_\odot) = (1.08^{+0.18}_{-0.16})\log_{10}(L'_{HCN(1-0)}/(\mathrm{K\ km\ s^{-1}\ pc^2})) + (2.32^{+1.54}_{-1.50}). \quad (1)$$

For L_{IR}-$L'_{HCO^+(1-0)}$:

$$\log_{10}(L_{IR}/L_\odot) = (0.94^{+0.25}_{-0.19})\log_{10}(L'_{HCO^+}(1-0)/(\mathrm{K\ km\ s^{-1}\ pc^2})) + (3.54^{+2.18}_{-2.20}). \quad (2)$$

And for L_{IR}-$L'_{HCN(1-0)}$, omitting the Gao & Solomon (2004) points:

$$\log_{10}(L_{IR}/L_\odot) = (1.09^{+0.48}_{-0.31})\log_{10}(L'_{HCN(1-0)}/(\mathrm{K\ km\ s^{-1}\ pc^2})) + (2.30^{+3.37}_{-3.64}). \quad (3)$$

The best-fit lines in Figure 6 of the original article are correct and the conclusions of the paper are not affected. We thank Iván Oteo for bringing the discrepancy in the original paper to our attention.

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